What is Claimed:

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1	1.	A cover for a rack to control the temperature of the contents of the rack
2	comprising:	

- a frame having a temperature-controlling element, said frame adapted to be disposed above a rack;
- a soft hood having a bottom, said hood extending downward from said frame; and a duct fluidly connecting said temperature-controlling element to the bottom of said hood.
- 1 2. The cover of claim 1 wherein said temperature-controlling element is a 2 heater.
- The cover of claim 1 wherein said temperature-controlling element is a refrigeration device.
- 1 4. The cover of claim 1 further comprising a blower in said frame.
- 1 5. The cover of claim 1 wherein said frame has four sides and said hood has 2 four sides, and each said hood side attaches to a respective frame side.
 - 6. The cover of claim 1 wherein said frame is adapted to be attached to a wall or suspended from a ceiling.
- 7. The cover of claim 1 wherein said frame is adapted to be disposed on top
 2 of a laboratory bottle rack.
- 1 8. The cover of claim 1 wherein said hood has an openable front panel to 2 allow insertion and removal of a rack.
- 1 9. The cover of claim 1 wherein said hood is comprised of a multi-layered material.
- 1 10. The cover of claim 9 wherein said hood is three-layered and one of the 2 three layers is a thermal insulation.
- 1 11. The cover of claim 1 wherein said hood is one piece.

12. 1 The cover of claim 1 comprising two ducts. 1 13. The cover of claim 1 wherein said duct is disposed outside of said hood. 14. 1 A method of controlling the temperature of a reaction comprising the steps of: 2 (a) suspending a flexible hood from a frame to form an enclosed area below the frame; 3 (b) inserting a reaction vessel into the enclosed area; 4 (c) bringing air within the frame to a first desired temperature; 5 (d) passing the air from the frame to the bottom of the hood and into the 6 7 enclosed area; (e) taking up the air from the enclosed area at the top of the hood and bringing 8 it back to said first temperature in the frame; and 9 10 (f) repeating steps (d) and (e) until a desired reaction is complete. 1 15. The method of step 14 wherein step (c) comprises warming air within the frame.